BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of RCC Drain and culverts in balance roads of AMS layout and surrounding areas in ward no-03 of Yelahanka New Town Sub Division

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)								
	For RCC Drain	Cum							
	AMS Layout								
	1st cross road		2	248.00	1.10	1.10	600.16		
	6th cross road		2	107.00	1.10	1.00	235.40		
	4th "A" main road		2	158.00	1.10	1.10	382.36		
	2nd main road		2	256.00	1.10	1.10	619.52		
							1837.44	215.28	**395564.08**
	Basic Rate Rs.=	130.00							
	Add 6% A.W Rs. =	7.80							
	Sub Total =	137.80							
	8Km Lead, Loading and Unloading =(2*1.28*8)+57	77.48							
	Total Rate Rs. =	**215.28**							
2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	For Drain	Cum							
	AMS Layout								
	1st cross road		2	248.00	1.10	0.15	81.84		
	6th cross road		2	107.00	1.10	0.15	35.31		
	4th "A" main road		2	158.00	1.10	0.15	52.14		
	2nd main road		2	256.00	1.10	0.15	84.48		
							253.77	5421.90	**1375915.56**
	Basic Rate Rs.=	5115.00							
	Add 6% A.W Rs. =	306.90							
	Total Rate Rs. =	**5421.90**							
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	For RCC Drain	Cum							
	Bottom slab								
	AMS Layout								
	1st cross road		2	248.00	0.90	0.15	66.96		
	6th cross road		2	107.00	0.90	0.15	28.89		
	4th "A" main road		2	158.00	0.90	0.15	42.66		
	2nd main road		2	256.00	0.90	0.15	69.12		
	side walls								
	AMS Layout								
	1st cross road		4	248.00	0.15	0.70	104.16		

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	6th cross road		4	107.00	0.15	0.70	44.94		
	4th "A" main road		4	158.00	0.15	0.70	66.36		
	2nd main road		4	256.00	0.15	0.70	107.52		
							530.61		
					Net Qty.		**530.61**	7070.20	**3751518.82**
	Basic Rate Rs.=	6670.00							
	Add 6% A.W Rs. =	400.20							
	Total Rate Rs. =	**7070.20**							
4	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Considering steel For Drain @ 60 kg / cum	Tonne		530.61	0.060	--	31.84		
							31.84	73992.24	**2355661.35**
	Basic Rate Rs.=	69804.00							
	Add 6% A.W Rs. =	4188.24							
	Total Rate Rs. =	**73992.24**							
5	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For drain cover slab	Sqm							
	AMS Layout								
	1st cross road		2	248.00	0.90	--	446.40		
	6th cross road		2	107.00	0.90	--	192.60		
	4th "A" main road		2	158.00	0.90	--	284.40		
	2nd main road		2	256.00	0.90	--	460.80		
							1384.20		
	70% Available Slabs						**415.26**	2337.00	**970462.62**
	Data Rate Rs. =	2337							
							Sub Total 1 Rs.		**8849122.44**
	Add GST @ 12%								**1061894.69**
	PMC Charges								**88491.22**
							Sub Total 2 Rs.		**9999508.35**
	Miscellaneous & Rounding off								**491.65**
								Total Rs.	**10000000.00**

CERTIFICATE:

1 The work spot has been inspected by me and the work is found to be necessary.

2 The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 21-10-2019 and Data Rates

3 The Provisions made in the estimate are quite necessary and adequate.

4 The area comes with in the BBMP limits.

Assistant Engineer
Ward 03
BBMP

Assistant Executive Engineer
Yelahanka Satellite Sub Division
BBMP

Executive Engineer
Yelahanka Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of RCC Drain and culverts in Judicial layout balance roads and surrounding areas in ward no-04 of Yelahanka New TownSub Division

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)								
	For RCC Drain	Cum							
	Judicial Layout								
	27th Cross road from 18th main road to 24th main road								
	RHS		1	219.00	1.10	1.20	289.08		
	LHS		1	239.00	1.10	1.20	315.48		
	20th main road from 27th Cross road to 22nd Cross road								
	RHS		1	172.00	1.10	1.00	189.20		
	LHS		1	172.00	1.10	1.00	189.20		
	28th A Cross Road from 21st Main Road								
	RHS		1	93.00	1.10	1.00	102.30		
	LHS		1	93.00	1.10	1.00	102.30		
	Culvert		6	7.00	1.40	1.20	70.56		
							1258.12	215.28	**270848.07**
	Basic Rate Rs.=	130.00							
	Add 6% A.W Rs. =	7.80							
	Sub Total =	137.80							
	8Km Lead, Loading and Unloading =(2*1.28*8)+57	77.48							
	Total Rate Rs. =	**215.28**							
2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	For Drain	Cum							
	Judicial Layout								
	27th Cross road from 18th main road to 24th main road								
	RHS		1	219.00	1.10	0.15	36.14		
	LHS		1	239.00	1.10	0.15	39.44		
	20th main road from 27th Cross road to 22nd Cross road								
	RHS		1	172.00	1.10	0.15	28.38		
	LHS		1	172.00	1.10	0.15	28.38		
	28th A Cross Road from 21st Main Road								
	RHS		1	93.00	1.10	0.15	15.35		
	LHS		1	93.00	1.10	0.15	15.35		
	Culvert		6	7.00	1.40	0.15	8.82		
	For Kerb stones								
	27th Cross road from 18th main road to 24th main road								
	RHS		1	219.00	0.20	0.10	4.38		
	LHS		1	239.00	0.20	0.10	4.78		
	20th main road from 27th Cross road to 22nd Cross road								
	RHS		1	172.00	0.20	0.10	3.44		
	LHS		1	172.00	0.20	0.10	3.44		
							187.88	5421.90	**1018666.57**
	Basic Rate Rs.=	5115.00							
	Add 6% A.W Rs. =	306.90							
	Total Rate Rs. =	**5421.90**							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	For RCC Drain	Cum							
	Bottom slab								
	Judicial Layout								
	27th Cross road from 18th main road to 24th main road								
	RHS		1	219.00	0.90	0.15	29.57		
	LHS		1	239.00	0.90	0.15	32.27		
	20th main road from 27th Cross road to 22nd Cross road								
	RHS		1	172.00	0.90	0.15	23.22		
	LHS		1	172.00	0.90	0.15	23.22		
	28th A Cross Road from 21st Main Road								
	RHS		1	93.00	0.90	0.15	12.56		
	LHS		1	93.00	0.90	0.15	12.56		
	side walls								
	Judicial Layout								
	27th Cross road from 18th main road to 24th main road								
	RHS		2	219.00	0.15	0.75	49.28		
	LHS		2	239.00	0.15	0.75	53.78		
	20th main road from 27th Cross road to 22nd Cross road								
	RHS		2	172.00	0.15	0.75	38.70		
	LHS		2	172.00	0.15	0.75	38.70		
	28th A Cross Road from 21st Main Road								
	RHS		2	93.00	0.15	0.75	20.93		
	LHS		2	93.00	0.15	0.75	20.93		
	Culvert raft		6	7.00	1.20	0.20	10.08		
	Culvert wall		12	7.00	0.23	0.75	14.49		
							380.25		
					Net Qty.		**380.25**	7070.20	**2688443.55**
	Basic Rate Rs.=	6670.00							
	Add 6% A.W Rs. =	400.20							
	Total Rate Rs. =	**7070.20**							
4	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Considering steel For Drain @ 60 kg / cum	Tonne		355.68	0.060	--	21.34		
	Considering steel For culvert @ 90 kg / cum	Tonne		24.57	0.090	--	2.21		
							23.55	73992.24	**1742672.64**
	Basic Rate Rs.=	69804.00							
	Add 6% A.W Rs. =	4188.24							
	Total Rate Rs. =	**73992.24**							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
5	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For drain cover slab	Sqm							
	Judicial Layout								
	27th Cross road from 18th main road to 24th main road								
	RHS		1	219.00	0.90	--	197.10		
	LHS		1	239.00	0.90	--	215.10		
	20th main road from 27th Cross road to 22nd Cross road								
	RHS		1	172.00	0.90	--	154.80		
	LHS		1	172.00	0.90	--	154.80		
	28th A Cross Road from 21st Main Road								
	RHS		1	93.00	0.90	--	83.70		
	LHS		1	93.00	0.90	--	83.70		
							889.20	2337.00	**2078060.40**
	Data Rate Rs. =	2337							
6	Providing and fixing RCC precast cover slab of 250mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
		Sqm							
	Judicial Layout								
	Culvert		6	7.00	1.20	--	50.40		
							50.40	5418.00	**273067.20**
	Data Rate Rs. =	5418							
7	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)								
		Nos							
	Judicial Layout								
	27th Cross road from 18th main road to 24th main road								
	RHS		1	219.00			219.00		
	LHS		1	239.00			239.00		
	20th main road from 27th Cross road to 22nd Cross road								
	RHS		1	172.00			172.00		
	LHS		1	172.00			172.00		
							802.00		
							1743.00		
							1743.00	432.48	**753812.64**
	Basic Rate Rs.=	408.00							
	Add 6% A.W Rs. =	24.48							
	Total Rate Rs. =	**432.48**							
8	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification No. KSRRB M800-6. (P.No.180, I.No.24.1 of PW, P&IWTD SR 2018-19)								
	For Drain	Sqm							
	Judicial Layout								
	27th Cross road from 18th main road to 24th main road								
	RHS		1	219.00	0.30		65.70		
	LHS		1	239.00	0.30		71.70		
	20th main road from 27th Cross road to 22nd Cross road								
	RHS		1	172.00	0.30		51.60		
	LHS		1	172.00	0.30		51.60		
							240.60	84.80	**20402.88**

Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
Basic Rate Rs.=	80.00							
Add 6% A.W Rs. =	4.80							
Total Rate Rs. =	**84.80**							
							Sub Total 1 Rs.	**8845973.95**
Add GST @ 12%								**1061516.87**
PMC Charges								**92000.00**
							Sub Total 2 Rs.	**9999490.83**
Miscellaneous & Rounding off								**509.17**
							Total Rs.	**10000000.00**

CERTIFICATE:

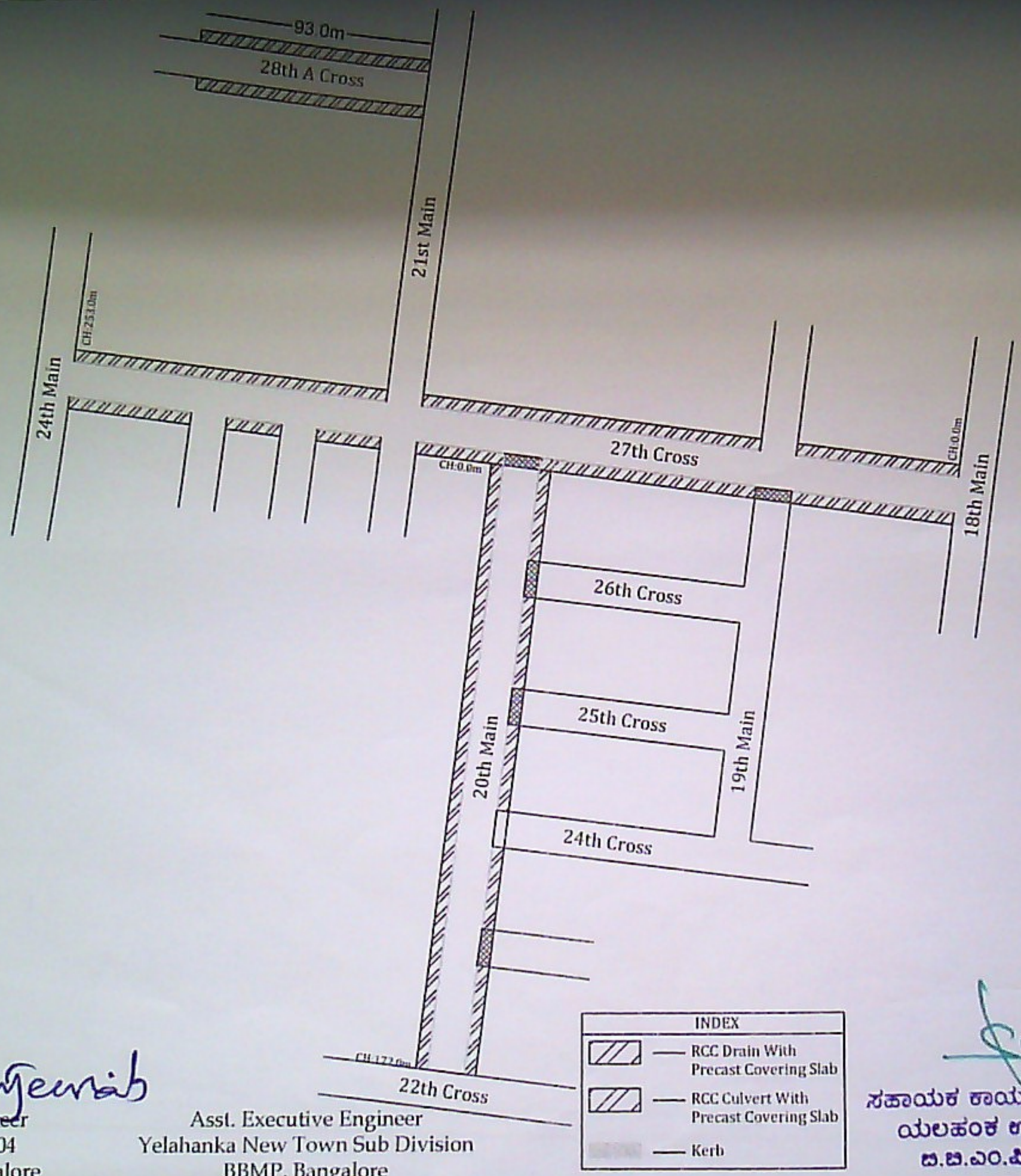
1 The work spot has been inspected by me and the work is found to be necessary.

2 The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 21-10-201 9and Data Rates

3 The Provisions made in the estimate are quite necessary and adequate.

4 The area comes with in the BBMP limits.

Assistant Engineer Ward 04 BBMP	Assistant Executive Engineer Yelahanka Satellite Sub Division BBMP	Executive Engineer Yelahanka Division BBMP



Construction of RCC Drain and Culverts in Juduicial Layout Balance Roads and Surrounding Areas in Ward No.04 of Yelahanka New Town Sub Division.

DRAWING TITLE

STRIP PLAN

CLINT

BRUHATH BANGALORE MAHANAGARA PALIKE

Asst. Engineer
Ward No.04
BBMP, Bangalore

Asst. Executive Engineer
Yelahanka New Town Sub Division
BBMP, Bangalore

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